

TABLE 1-1
CROSS-REFERENCE: WAC173-340-400(4)(a) ENGINEERING DESIGN REPORT (EDR) REQUIREMENTS
LEHIGH CEMENT COMPANY CLOSED CKD PILE SITE
METALINE FALLS, WASHINGTON

WAC173-340-400		ENGINEERING DESIGN REPORT SECTION CONTAINING REQUIRED INFORMATION
4(a)(i)	Goals of the cleanup action including specific cleanup or performance requirements;	2.3.5, Table 2-1
4(a)(ii)	General information on the facility including a summary of information in the remedial investigation/feasibility study updated as necessary to reflect the current conditions;	2.2, 2.3.1, 2.3.2, 2.3.3, 2.3.4
4(a)(iii)	Identification of who will own, operate, and maintain the cleanup action during and following construction;	1.2, 6.1
4(a)(iv)	Facility maps showing existing site conditions and proposed location of the cleanup action;	Figures 1-1, 2-1
4(a)(v)	Characteristics, quantity, and location of materials to be treated or otherwise managed, including ground water containing hazardous substances;	3.2.3, 3.3
4(a)(vi)	A schedule for final design and construction;	7.2
4(a)(vii)	A description and conceptual plan of the actions, treatment units, facilities, and processes required to implement the cleanup action including flow diagrams;	3.3, Figures 2-1, 2-2, 2-3, 3-4, 3-5
4(a)(viii)	Engineering justification for design and operation parameters, including:	See below

TABLE 1-1 (continued)
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4(a)(viii)(A) Design criteria, assumptions and calculations for all components of the cleanup action;	3.2, 3.3, Table 3-1, Appendices
4(a)(viii)(B) Expected treatment, destruction, immobilization, or containment efficiencies and documentation on how that degree of effectiveness is determined; and	3.3.6, Appendix C
4(a)(viii)(C) Demonstration that the cleanup action will achieve compliance with cleanup requirements by citing pilot or treatability test data, results from similar operations, or scientific evidence from the literature;	2.3.1, 3.3.6
4(a)(ix) Design features for control of hazardous materials spills and accidental discharges (for example, containment structures, leak detection devices, run-on and run-off controls);	3.3, Table 3-1
4(a)(x) Design features to assure long-term safety of workers and local residences (for example, hazardous substances monitoring devices, pressure valves, bypass systems, safety cutoffs);	3.3
4(a)(xi) A discussion of methods for management or disposal of any treatment residual and other waste materials containing hazardous substances generated as a result of the cleanup action;	3.2.3
4(a)(xii) Facility specific characteristics that may affect design, construction, or operation of the selected cleanup action, including:	See below

TABLE 1-1 (continued)
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4(a)(xii)(A) Relationship of the proposed cleanup action to existing facility operations;	Not applicable
4(a)(xii)(B) Probability of flooding, probability of seismic activity, temperature extremes, local planning and development issues; and	2.3.1, Table 3-1, Figure 3-4
4(a)(xii)(C) Soil characteristics and ground water system characteristics;	2.3, 3.2, Appendix A
4(a)(xiii) A general description of construction testing that will be used to demonstrate adequate quality control;	4.3
4(a)(xiv) A general description of compliance monitoring that will be performed during and after construction to meet the requirements of WAC 173-340-410;	5.
4(a)(xv) A general description of construction procedures proposed to assure that the safety and health requirements of WAC 173-340-810 are met;	3.3, 5.2
4(a)(xvi) Any information not provided in the remedial investigation/feasibility study needed to fulfill the applicable requirements of the State Environmental Policy Act (chapter 43.21C RCW);	Not applicable
4(a)(xvii) Any additional information needed to address the applicable state, federal and local requirements including the substantive requirements for any exempted permits; and property access issues which need to be resolved to implement the cleanup action;	To be provided by Ecology

TABLE 1-1 (continued)
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4(a)(xviii) For sites requiring financial assurance and where not already incorporated into the order or decree or other previously submitted document, preliminary cost calculations and financial information describing the basis for the amount and form of financial assurance and, a draft financial assurance document;	To be provided to Ecology in a separate submittal in accordance with the Consent Decree.
4(a)(xix) For sites using institutional controls as part of the cleanup action and where not already incorporated into the order or decree or other previously submitted documents, copies of draft restrictive covenants and/or other draft documents establishing these institutional controls; and	Restrictive Covenant is incorporated into the Consent Decree as Exhibit F. 3.3.14
4(a)(xx) Other information as required by the department.	None